



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-22-L47-835-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 19272.2
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 01-APR-2015
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 22"ARRAYS 2x2' RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/ ACRYLIC RIBBED CENTER DIFFUSER
 [MORE] EVERLINE LED DRIVER
 [LUMCAT] PTR-22-L47-835-RA-xxx-xxx
 [LAMPCAT] M700C835D72N2A
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Retrofit
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	38.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4332	4581	4839
55	3832	4191	4549
65	3451	4071	4664
75	2640	4084	5143
85	1707	4492	4582

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1804.746	1804.746	1804.746	1804.746	1804.746
5	1795.381	1794.043	1795.381	1795.381	1796.050
10	1761.266	1762.604	1764.610	1767.286	1768.624
15	1683.002	1685.009	1689.691	1697.718	1701.063
20	1636.847	1641.529	1652.232	1664.272	1669.624
25	1510.421	1516.441	1539.184	1547.212	1553.901
30	1383.995	1425.468	1469.617	1539.853	1468.279
35	1245.529	1256.900	1284.995	1313.090	1325.130
40	1131.143	1144.522	1178.637	1213.421	1230.144
45	1046.859	1062.914	1107.062	1149.873	1169.272
50	899.697	918.427	965.920	1012.076	1031.474
55	751.197	771.265	821.434	871.603	891.670
60	610.055	634.136	687.650	737.819	759.893
65	498.345	527.109	587.981	646.845	673.602
70	365.230	402.021	473.595	539.818	565.906
75	233.453	278.940	361.217	428.109	454.865
80	131.108	191.311	276.933	324.426	337.136
85	50.838	104.351	133.784	135.122	136.460
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	650.98	N.A.	13.40
0-30	1364.72	N.A.	28.10
0-40	2180.89	N.A.	45.00
0-60	3760.00	N.A.	77.50
0-80	4715.58	N.A.	97.20
0-90	4849.01	N.A.	100.00
10-90	4678.62	N.A.	96.50
20-40	1529.91	N.A.	31.60
20-50	2372.01	N.A.	48.90
40-70	2156.31	N.A.	44.50
60-80	955.57	N.A.	19.70
70-80	378.38	N.A.	7.80
80-90	133.43	N.A.	2.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4849.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.39
10-20	480.59
20-30	713.74
30-40	816.17
40-50	842.10
50-60	737.01
60-70	577.20
70-80	378.38
80-90	133.43
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

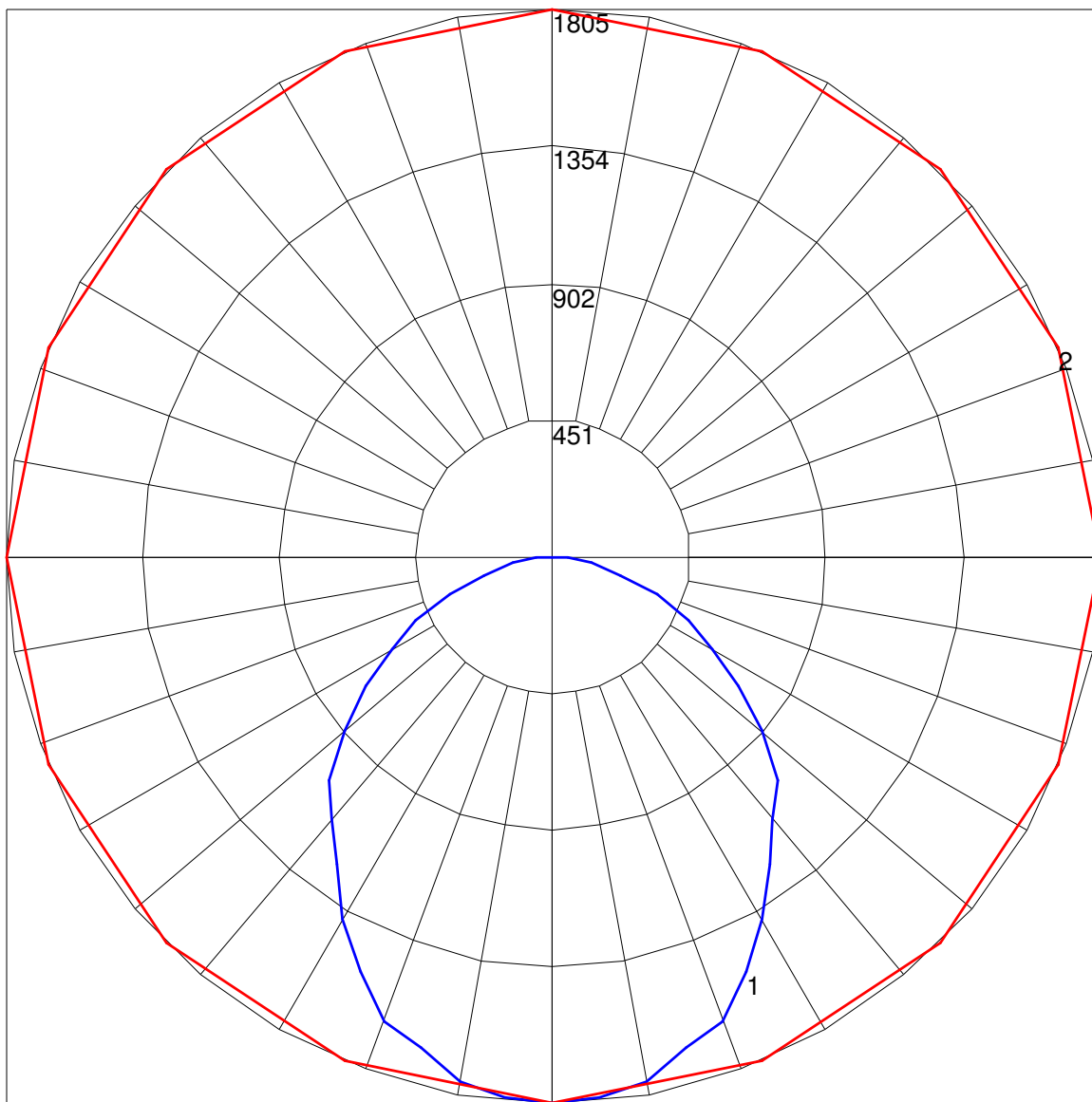
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	222	222	222	222	217	217	217	217	207	207	207	198	198	198	190	190	190	186
1	202	192	184	177	197	188	181	174	180	174	168	173	168	163	166	162	158	154
2	183	167	154	144	178	164	152	142	157	147	138	151	143	135	145	138	132	128
3	167	147	132	119	162	144	130	118	139	126	116	133	123	114	129	120	112	108
4	153	130	114	101	149	128	112	101	123	110	99	119	107	98	115	105	96	92
5	141	117	100	87	137	115	99	87	111	97	86	107	95	85	103	93	84	80
6	130	105	88	76	127	103	88	76	100	86	75	97	84	75	94	83	74	70
7	121	96	79	68	118	94	78	67	91	77	67	88	76	66	86	75	66	62
8	113	87	71	60	110	86	71	60	84	70	60	81	69	60	79	68	59	56
9	105	80	65	55	103	79	64	54	77	64	54	75	63	54	73	62	54	50
10	99	74	59	50	96	73	59	49	71	58	49	70	57	49	68	57	49	45

POLAR GRAPH



Maximum Candela = 1804.746 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)